EXPERT QUESTIONS ON QUADRATIC THEORY VER 2.

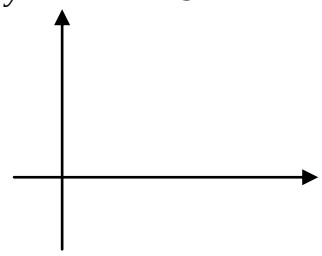
Complete the solution of these equations **by quadratic formula only.**

1. $x^2 - 4x + 3 = 0$

$x = \dfrac{4 \pm \sqrt{\quad}}{2}$

=

Sketch the graph of
$y = x^2 - 4x + 3$

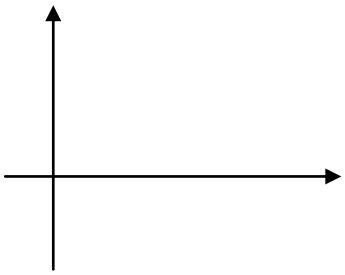


3. $x^2 - 4x + 2 = 0$

$x = \dfrac{4 \pm \sqrt{\quad}}{2}$

=

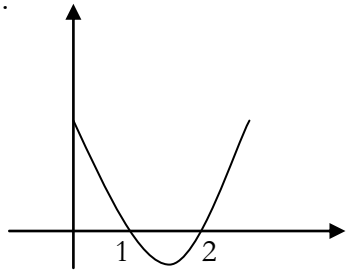
Sketch the graph of
$y = x^2 - 4x + 2$



Note: The DISCRIMINANT controls what <u>type</u> of solutions we get and where the graph crosses the x axis.

State what **TYPE** of number the discriminant would be for the following graphs.

1.



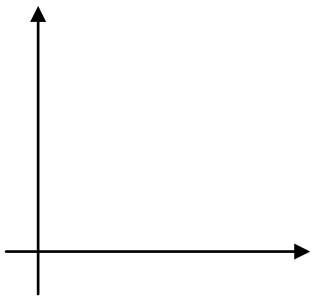
Δ =

2. $x^2 - 4x + 4 = 0$

$x = \dfrac{4 \pm \sqrt{\quad}}{2}$

x=

Sketch the graph of
$y = x^2 - 4x + 4$

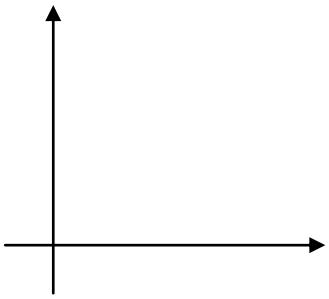


4. $x^2 - 4x + 5 = 0$

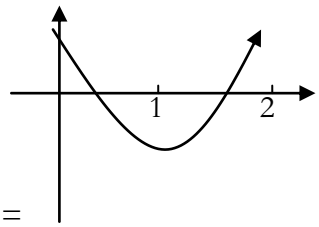
$x = \dfrac{4 \pm \sqrt{\quad}}{2}$

x =

Sketch the graph of
$y = x^2 - 4x + 5 = 0$

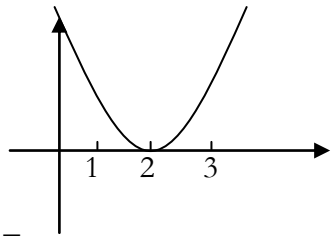


2.



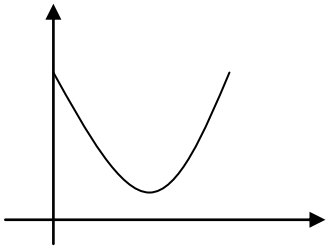
Δ =

3.



Δ =

4.



Δ =